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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,780	12/28/2004	Tomoyuki Asano	262954US6PCT	7690
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			NILFOROUSH, MOHAMMAD A	
ALEAANDRIA, VA 22514			ART UNIT	PAPER NUMBER
			3685	
			NOTIFICATION DATE	DELIVERY MODE
			12/28/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/517,780	ASANO, TOMOYUKI				
Office Action Summary	Examiner	Art Unit				
	Mohammad A. Nilforoush	3685				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>05 O</u>	ctober 2009					
	action is non-final.					
· <u> </u>						
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>5-33 and 37-42</u> is/are pending in the application.						
4a) Of the above claim(s) <u>5-33</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>37-42</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Acknowledgements

- 1. The amendment filed 5 October 2009 is acknowledged.
- 2. Claims 5-33 and 37-42 are pending.
- 3. Claims 37-42 have been examined.
- 4. This Office action is given Paper No. 20091214 for reference purposes only.

Continued Examination Under 37 CFR 1.114

5. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5 October 2009 has been entered.

Response to Amendment/Arguments

- 6. The amendment of claim 37 overcomes the rejection of claims 37-38 under 35 USC §101.
- 7. Applicant's arguments with respect to claims 37-42 have been considered but are moot in view of the new ground(s) of rejection.

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Claim Rejections - 35 USC § 112

8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 37-42 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 37, 39, and 41 recite "...generating...a plurality of different signature data elements from a secret key data element and a message data element; generating...a plurality of different identification data elements, each of the plurality of different identification data elements including a generated signature element and the message data element used in the generating of the generated signature data elements..." However, the specification does not describe a plurality of different signatures being created using only a single secret key and message.

Claims 38, 40, and 42 are also rejected as each depends on claims 37, 39, and 41 respectively.

10. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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11. Claims 37-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

12. Claims 37, 39, and 41 recite "...generating...a plurality of different signature data elements from a secret key and a message data element..." A digital signature is a function of the data being signed and the key used to sign it (An Introduction to Cryptography, Page 19, Figure 1-6). Thus, it is unclear to one of ordinary skill one of ordinary skill how multiple different signatures can be produced when both the data being signed, and a key used to generate the signature, are the same.

Claims 38, 40, and 42 are also rejected as each depends on claims 37, 39, and 41 respectively.

Claim Rejections - 35 USC § 103

- 13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 14. Claims 37-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asano, et al. (European Patent Application Publication No. EP 1069567, hereinafter "Asano") in view of Muehring (US Patent Application Publication No. 2003/0145183) in further view of Ohta, et al. (US Patent No. 6,212,637, hereinafter "Ohta").

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15. Regarding claims 37, 39 and 41, Asano discloses a method of a media verification system for identifying recording media, comprising:

 generating a plurality of different signature data from secret key data and message data using a data processing device of the media verification system (Asano Paragraphs 37, and 115);

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- generating a plurality of different identification data using the data processing device, each of the plurality of different identification data including a generated signature data and a message data used in the generating of the generated signature data(Asano Paragraphs 37, and 115);
- assigning one of the plurality of generated identification data to each of a plurality of different recording media (Asano Paragraphs 27-28, 37, 43, and 115);
- recording one of the plurality of generated identification data to an assigned recording media using a media writing device of the media verification system (Asano Paragraph 28, 39, 43, and 115);
- generating verification data from the generated signature data of the identification data recorded on the assigned recording media using a public key (Asano Paragraphs 35, 46, 51-60 and 115);
- comparing the verification data to the message data of the identification data
 recorded on the assigned recording media using the data processing device and
 verifying the identification data if the verification data is the same as the message
 data of the identification data recorded on the assigned recording media (Asano
 Paragraphs 55-60);

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writing an encrypted content to the assigned recording media using a media
recording device if the assigned recording media is verified in the comparing,
wherein the media recording device is configured to inhibit writing the encrypted
content to a recording media having an unverified identification data or no
identification data recorded thereon (Asano Paragraphs 61, 72, 81-82, 90-92,
and 115; Claim 1).

Asano does not specifically disclose storing the plurality of different identification data in an electronic memory of the media verification system. Asano further does not specifically disclose that the plurality of different signature elements are produced using the same message data.

Muehring discloses storing the unique identification information stored on each disc on a server (Muehring Paragraph 18).

Ohta discloses generating a signature using based on data that includes elements that are constant (Ohta 12:23-25; 13:4-28, public information {p, q, g}).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Asano to include storing the unique identification information stored on each disc on a server as disclosed in Muehring in order to track where the disc is recorded and make sure data is only recorded on valid discs (Muehring Paragraphs 18-20). Further, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Asano in view of Muehring to include using constant data elements in generating signatures as disclosed

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in Ohta in order to decrease computational load on a signer apparatus by using the Schnorr scheme of generating a digital signature (Ohta **2:41-60**; **11:54-57**).

16. Regarding claims 38, 40, and 42, Asano discloses:

- generating an identification revocation list, wherein the identification revocation
 list includes identification data (Asano Paragraphs 41-42);
- recording the identification revocation list to the assigned recording media using
 the media writing device, wherein the media recording device is further
 configured to inhibit writing the encrypted content to the assigned recording
 media if the identification data recorded on the assigned recording media is
 included in the identification revocation list (Asano Paragraphs 43, 53-55).

Asano does not specifically disclose that the identification data on the revocation list corresponds to an unauthorized recording media.

Muehring further discloses storing disc IDs on a server and marking pirated copies as such (Muehring Paragraphs 18 and 33).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rankl, W. and W. Effing, "Smart Card Handbook," Second Edition, 2000,
 John Wiley & Sons, Ltd., West Sussex, England., for disclosing the use of constant values in calculating a signature.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A. Nilforoush whose telephone number is (571)270-5298. The examiner can normally be reached on Monday-Thursday 10 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Calvin Hewitt can be reached on (571)272-6709. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. A. N./ Examiner, Art Unit 3685

/Calvin L Hewitt II/ Supervisory Patent Examiner, Art Unit 3685